WHAT IS CLAIMED IS:

1. A liquid container comprising:

an accommodation portion to define a liquid accommodation space;

a liquid supply portion to supply a liquid accommodated in the accommodation space to an outside;

a mechanism to maintain or expand a volume of the accommodation space; and

a one-way valve to allow an introduction of a gas from the outside into the accommodation space and prevent the liquid and gas from flowing out of the accommodation space to the outside;

wherein the one-way valve includes: a flexible sheet situated between a first chamber on the accommodation space side and a second chamber on the outside and having an area to secure a predetermined level of freedom of deflection; and a valve mechanism to perform an open-close operation accompanied by a deflection of the flexible sheet, the degree of the flexible sheet deflection conforming to a pressure difference between the first chamber and the second chamber;

wherein the area of the flexible sheet is formed with an undulated portion whose undulated form is maintained in at least an operation range of the valve mechanism.

2. A liquid container according to claim 1, wherein the area of the flexible sheet is formed with an undulated portion, the undulated portion rising or a sinking toward the first chamber side or second chamber side.

3. A liquid container according to claim 1, wherein the flexible sheet is formed of a resin member or resin sheet.

4. A liquid container according to claim 1, wherein the valve mechanism includes a valve closing member attached to the flexible sheet, a seal member provided at a predetermined position to oppose the valve closing member, and a biasing member urging the seal member in a direction opposing the valve closing member;

wherein the valve closing member has an opening communicating the first chamber and the second chamber with each other;

wherein the seal member opens or closes the opening as the valve closing member moves accompanied by a deflection of the flexible sheet.

5. A liquid container according to claim 1, wherein the area of the flexible sheet is situated

along a circumference of the valve closing member.

6. An ink tank accommodating ink as a liquid in the liquid container of claim 1.

7. An ink jet cartridge having the ink tank of claim 6 and an ink jet print head to eject ink.

8. An ink jet printing apparatus for printing an image by using the ink tank of claim 6 and an ink jet print head to eject ink and by ejecting ink supplied from the ink tank from the ink jet print head.

9. A one-way valve for allowing a fluid to move from a first chamber on one side of a path to a second chamber on the other side and blocking the fluid from moving from the second chamber to the first chamber, the one-way valve comprising:

a flexible sheet situated between the first chamber and the second chamber and having an area to secure a predetermined level of freedom of deflection; and

a valve mechanism to perform an open-close operation accompanied by a deflection of the flexible sheet, the degree of the flexible sheet deflection conforming to a pressure difference between the first chamber and the second chamber;

wherein the area of the flexible sheet is formed

with an undulated portion whose undulated form is maintained in at least an operation range of the valve mechanism.

10. A method of manufacturing a liquid container, wherein the liquid container includes: an accommodation portion to define a liquid accommodation space; a liquid supply portion to supply a liquid accommodated in the accommodation space to an outside; a mechanism to maintain or expand a volume of the accommodation space; and a one-way valve to allow an introduction of a gas from the outside into the accommodation space and prevent the liquid and gas from flowing out of the accommodation space to the outside;

wherein the one-way valve includes: a flexible sheet situated between a first chamber on the accommodation space side and a second chamber on the outside and having an area to secure a predetermined level of freedom of deflection; and a valve mechanism to perform an open-close operation accompanied by a deflection of the flexible sheet, the degree of the flexible sheet deflection conforming to a pressure difference between the first chamber and the second chamber;

the method comprising:

a step of, before or after the flexible sheet is

assembled into the one-way valve, forming in the area of the flexible sheet an undulated portion whose undulated form is maintained in at least an operation range of the valve mechanism.

11. A method of manufacturing a liquid container according to claim 10, further including:

a step of forming the undulated portion in the area of the flexible sheet before the flexible sheet is assembled into the one-way valve; and

a step of, when the flexible sheet formed with the undulated portion is assembled into the one-way valve, setting an assembly attitude of the flexible sheet so that the undulated form of the undulated portion can be maintained in at least a deflection range of the flexible sheet as the valve mechanism performs an open-close operation.

12. A method of manufacturing a liquid container according to claim 10, further including:

a step of assembling into the one-way valve the flexible sheet not formed with the undulated portion in the area of the flexible sheet; and

a step of forming the undulated portion in the area of the flexible sheet after the flexible sheet is assembled into the one-way valve.

13. A method of manufacturing a liquid container according to claim 10, further including:

a step of, after preparing the liquid container provided with the one-way valve, injecting a liquid into the accommodation portion.